Permeability, Porosity, Capillarity

Permeability:

- Mixed particles (0.00001 cm to 0.5 cm in size)
- Dry mud (Smaller than 0.0004 cm in size)
- Uniform-sized particles (0.2 cm)

Porosity:

Capillarity:
Closure Questions

1. Which soil will have a greater porosity? Why?

2. Which soil will have a greater porosity? Why?

3. As slope increases, infiltration __________________ ?

4. As slope increases, runoff __________________ ?

5. By what process does water move UPWARD through soil? ____________________________

6. What size particles show this process best? ____________________________

7. For soil to have HIGH PERMEABILITY it must be:
   ___________ size, ___________ shape, ___________ sorted, ___________ packed.

8. Which type of soil has the HIGHEST PERMEABILITY? ) clay, silt, sand, pebbles? ____________

9. For soil to have HIGH POROSITY it must be:
   ___________ size, ___________ shape, ___________ sorted, ___________ packed.

10. Which type of soil has the HIGHEST POROSITY? ) clay, silt, sand, pebbles? ____________

11. For soil to have HIGH CAPILLARITY it must be: ____________________________ size.

12. Which type of soil has the HIGHEST CAPILLARITY? ) clay, silt, sand, pebbles? ____________

13. Precipitation will INFILTRATE MOST when soil is: ____________________________

14. Precipitation will INFILTRATE MOST when soil is: ____________________________

**Homework:** Read. Water and Climate packet and Answer Questions